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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,087	08/21/2006	Woflgang Fey	AP 10889	4162
52203 7590 06/24/2010 CONTINENTAL TEVES, INC. ONE CONTINENTAL DRIVE			EXAMINER	
			AHMED, ENAM	
AUBURN HILLLS, MI 48326-1581			ART UNIT	PAPER NUMBER
			2112	
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			06/24/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)	
10/590,087	FEY ET AL.		
Examiner	Art Unit		
ENAM AHMED	2112		

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply

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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the making date of this communication. Failure for providing the state of the communication of the state of the communication. Failure for providing the state of t
Status
Responsive to communication(s) filed on 24 March 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) ⊠ Claim(s) 25-47 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 25-47 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d) 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12)

Attachment(s)

Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(e) (PTO-9300)

0/88/08)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application
6) Other:

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Final

This office action is in reply to applicant's amendment filed on 3/24/10.

Response to applicant's arguments

Applicant's arguments with respect to claims 25, 39 and 41 have been considered but are
moot in view of the new ground(s) of rejection.

35 U.S.C. 102

 a. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 25-47 are rejected under 35 U.S.C. 102(e) as being unpatentable over Shipton et al. (Pub. No. 2006/0052962).

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With respect to claim 25, the Shipton et al. reference teaches sending a pair of logically complementary error signals from at least one microprocessor chip or multiple processor .mu.C (1) ([1656], [1664], [1521], [1565] and see fig. 63A, CPU – error signals such as cpu rwn and cpu acode are sent to configuration registers - signals such as Ccpu time sel, cpu rwn and cpu acode are the complimentary signals being sent from the CPU. These error signals are being sent together in parallel due to the fact that the CPU detects some inconsistency with the information being provided, and needs more accurate data, so in order to determine the more accurate data, it sends signals which are alike or complimentary in some way to the configuration registers to derive the accurate data); to at least one further component (2) (see fig. 63A. Configuration Registers); and evaluating the error signals in the at least one further component when each of the error signals has maintained its respective logic state for at least a minimum pulse length (see fig. 63A, Timing Pulse Generator and [1581] - After the configuration registers receive the error signals such as cpu adr, cpu time sel and cpu rwn, they are processed within the configuration registers and then signals such as free run wen and timer start value are sent to the timing pulse generator in addition to also writing data as seen in the figure, wherein the timing pulse generator compares the signals with the built-in free running counter to determine time elapsed between events at system clock accuracy and re-sends signals such as free run ont and pulse timer status to the configuration registers based on the error signals. Further, it is also mentioned that the free running counter can also be used as an input source in low-security random number generator).

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With respect to claim 26, the Shipton et al. reference teaches wherein the further component is a mixed-signal module (see fig. 63A, Timing Pulse Generator).

With respect to claim 27, the Shipton et al. reference teaches wherein in the event of a sequence of pulses on at least one of the error signals with a distance between the pulses that is smaller than the minimum pulse length, the time of the sequence of pulses output over the a respective one of the error signals is extended with respect to the actual pulse sequence time ([3237]).

With respect to claim 28, the Shipton et al. reference teaches comprising filtering the error signals ([1524]).

With respect to claim 29, the Shipton et al. reference teaches wherein at least one watchdog time window (17) is predetermined in the integrated circuit or in the further component (2), within which at least one artificially produced error signal or error signal pattern is generated and tested so that the error detection circuits become self-testable (see fig. 63A, Watchdog timer - also see wdog_wen and wdog_time_cnt).

With respect to claim 30, the Shipton et al. reference teaches wherein the watchdog time window (17) has a delay time TWindowDelay, and the time window, in which at least one error signal or error signal pattern is expected, remains open until the expiry of the delay time TWindowDelay (see fig. 63A, Watchdog timer – see wdog_time_thres).

With respect to claim 31, the Shipton et al. reference teaches wherein the delay time TWindowDelay is longer than a filter time TFilter of filter(s) (7, 7) processing the error signals ([1524]).

With respect to claim 32, the Shipton et al. reference teaches wherein the time window TWindowDelay is set in the further component (2) by way of an interface (5) connected to at least one microprocessor chip or multiple processor uc (see fig. 63A, Generic Timers).

With respect to claim 33, the Shipton et al. reference teaches wherein a condition TWindowDelay is satisfied in excess of the filter time TFilter ([1524]).

With respect to claim 34, the Shipton et al. reference teaches wherein the delay TWindowDelay approximately corresponds to twice the time TFilter ([1524]).

With respect to claim 35, the Shipton et al. reference teaches extending durations of pulses on the error signals ([3237]).

With respect to claim 36, the Shipton et al. reference teaches wherein a test of the error signals (3, 4) is performed with the aid of an interface (5) (see fig. 63A, Timing Pulse Generator).

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With respect to claim 37, the Shipton et al. reference teaches wherein the error signals are filtered by filters (7, 7) with a defined filter time TFilter (1524).

With respect to claim 38, the Shipton et al. reference teaches wherein the pulse width TMin is set to a value of at least 30 nanoseconds approximately ([3237]).

With respect to claim 39, the Shipton et al. reference teaches at least one microprocessor chip or multiple processor microcontroller (1) or microprocessor module (see fig. 63A, CPU); at least one additional separate component (2) having separately arranged power elements (see fig. 63A, Configuration Registers); and one or more pulse extending devices or signal delaying devices for outputting error pulses (6, 6') one after another through at least one error line (3, 4) (see fig. 63A, Timing Pulse Generator). See detailed explanation in claim 25 above.

With respect to claim 40, the Shipton et al. reference teaches one or more filters (7, 7') for filtering the error pulses transferred through the error lines (3, 4) ([1524]).

With respect to claim 41, the Shipton et al. reference teaches at least one microprocessor chip or multiple processor microcontroller (1) (see fig. 63A, CPU); at least one additional component (2) having separately arranged power elements, wherein a complementary pair of error signals transferred between the at least one microprocessor chip or multiple processor .mu.C (1) and the at least one additional component (2) (see fig. 63A, Configuration Registers – the registers receive the error signals from the CPU); and FILTERS for filtering error pulses (6,

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6') through associated ones of the error signals (see fig. 63A, Timing Pulse Generator). See detailed explanantion in claim 25 above.

With respect to claim 42, the Shipton et al. reference teaches wherein each filter (7, 7') is configured as a digital forward/backward counter ([3237]).

With respect to claim 43, the Shipton et al. reference teaches wherein the chips or components are interconnected by at least one bus (5) and at least one error line (3, 4) (see fig. 63A, CPU).

With respect to claim 44, the Shipton et al. reference teaches wherein the circuit includes hardware test structures, with the aid of which a test of the at least one error line (3, 4) can be performed using an interface (5) (see fig. 63A).

With respect to claim 45, the Shipton et al. reference teaches wherein the microprocessor chip (1) or the additional component comprises at least one watchdog window circuit (50) (see fig. 63A, Watchdog timer).

With respect to claim 46, the Shipton et al. reference teaches wherein the watchdog window circuit (50) predefines a watchdog time window (17), and the watchdog time window (17) has a delay time TWindowDelay, and the time window, in which at least one error signal or

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error signal pattern is expected, remains open until the expiry of the delay time TWindowDelay (see fig. 63A. Watchdog timer – see wdog time thres).

With respect to claim 47, the Shipton et al. reference teaches wherein the delay time TWindowDelay is longer than the filter time TFilter of the filter(s) (7, 7') processing the error signal(s) of the at least one error line (3, 3') ([1524]).

Conclusion

a. Applicant's amendment necessitated the new ground(s) of rejection presented in
this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37
CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Enam Ahmed whose telephone number is 571-270-1729. The examiner can normally be reached on Mon-Fri from 8:30 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Scott Baderman, can be reached on 571-272-3644.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EΑ

6/17/10

/Scott T Baderman/

Supervisory Patent Examiner, Art Unit 2114